

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A method for treating a mental disorder comprising administering to a mammal having a mental disorder an amount of a SMRI-peptide, ~~or a peptidomimetic thereof~~, that is sufficient to reduce or eliminate symptoms of the mental disorder.

Claim 2 (Currently Amended): The method according to claim 1, wherein said SMRI-peptide comprises an amino acid sequence selected from the group consisting of amino acid sequences shown in SEQ ID NO. 1, SEQ ID NO. 2, SEQ ID NO. 3, SEQ ID NO. 4, SEQ ID NO. 5, SEQ ID NO. 6, SEQ ID NO. 7, SEQ ID NO. 8, SEQ ID NO. 9, and SEQ ID NO. 10.

Claim 3 (Withdrawn, Currently Amended): The method according to claim 1 ~~or 2~~, wherein the mental disorder is an avoidance disorder.

Claim 4 (Withdrawn, Currently Amended): The method according to claim 1 ~~or 2~~, wherein the mental disorder is a decreased awareness disorder.

Claim 5 (Withdrawn): The method according to claim 4, wherein the disorder results from an autistic disorder, or schizophrenia.

Claim 6 (Withdrawn, Currently Amended): The method according to claim 1 ~~or 2~~, wherein the mental disorder is an attention deficit/hyperactivity disorder.

Claim 7 (Withdrawn, Currently Amended): The method according to claim 1 ~~or~~ 2, wherein the mental disorder is an arousal disorder.

Claim 8 (Withdrawn): The method according to claim 7, wherein the disorder is hospitalism.

Claim 9 (Withdrawn): The method according to claim 7, wherein the disorder is decreased interest in environment.

Claim 10 (Withdrawn, Currently Amended): The method according to claim 1 ~~or~~ 2, wherein the mental disorder is impaired interpersonal functioning and relationship to the external world.

Claim 11 (Withdrawn): The method according to claim 10, wherein the disorder is schizoid personality disorder.

Claim 12 (Withdrawn): The method according to claim 10, wherein the disorder is schizophrenia or a depressive disorder.

Claim 13 (Withdrawn, Currently Amended): The method according to claim 1 ~~or~~ 2, wherein the mental disorder is a mood disorder.

Claim 14 (Withdrawn): The method according to claim 13, wherein the disorder is a depressive disorder.

Claim 15 (Currently Amended): The method ~~according to~~ of claim 1 ~~or~~ 2, wherein the mental disorder is impaired social activity linked to sexuality.

Claim 16 (Withdrawn, Currently Amended): The method according to claim 1 ~~or~~ 2, wherein the mental disorder is impaired sexual behavior including untimely ejaculation.

Claim 17 (Withdrawn): The method according to claim 16, wherein the impaired sexual behavior is hypoactive sexual desire disorder.

Claim 18 (Withdrawn, Currently Amended): The method according to claim 1 ~~or~~ 2, wherein the mental disorder is simple phobia, social phobia, obsessive-compulsive disorder, or acute stress disorder.

Claim 19 (Withdrawn, Currently Amended): The method according to claim 1 ~~or~~ 2, wherein the mental disorder is related to a pain disorder.

Claim 20 (Currently Amended): The method ~~according to~~ of claim 1 ~~or~~ 2, wherein the mental disorder comprises symptoms of more than one mental disorder.

Claim 21 (Withdrawn, Currently Amended): The method according to claim 1 ~~any of claims 1-20~~, wherein the peptide or peptidomimetic is administered together with a second pharmaceutical agent, wherein the second pharmaceutical agent is present in an amount insufficient to reduce or eliminate symptoms of the mental disorder, and wherein the peptide or peptidomimetic according to the invention and the second pharmaceutical agent act synergistically to reduce or eliminate symptoms of the mental disorder.

Claim 22 (Currently Amended): The method of claim 1 ~~any of claims 1-21~~, wherein the route of administration is at least one selected from the group consisting of parenteral, intranasal, oral, sublingual, transmucosal, intrarespiratory, ~~or~~ and through an inert or iontophoretic patch.

Claim 23 (Withdrawn): A therapeutic composition comprising a SMR1 peptide or a peptidomimetic thereof, in an amount sufficient to reduce or eliminate symptoms of a mental disorder in a mammal having the mental disorder, and further comprising a pharmaceutically acceptable diluent and/or buffer and/or excipient.

Claim 24 (Withdrawn): The therapeutic composition according to claim 23, wherein said SMR1-peptide comprises an amino acid sequence selected from the amino acid sequences shown in SEQ ID NO. 1, SEQ ID NO. 2, SEQ ID NO. 3, SEQ ID NO. 4, SEQ ID NO. 5, SEQ ID NO. 6, SEQ ID NO. 7, SEQ ID NO. 8, SEQ ID NO. 9, and SEQ ID NO. 10.

Claim 25 (Withdrawn, Currently Amended): The therapeutic composition according to claim 23 ~~or~~ 24, wherein the therapeutic composition is useful in preparing a medicament for the treatment of an avoidance disorder.

Claim 26 (Withdrawn, Currently Amended): The therapeutic composition according to claim 23 ~~or~~ 24, wherein the therapeutic composition is useful in preparing a medicament for the treatment of a decreased awareness disorder.

Claim 27 (Withdrawn, Currently Amended): The therapeutic composition according to claim 23 ~~or~~ 24, wherein the therapeutic composition is useful in preparing a medicament for the treatment of an attention deficit/hyperactivity disorder.

Claim 28 (Withdrawn, Currently Amended): The therapeutic composition according to claim 23 ~~or~~ 24, wherein the therapeutic composition is useful in preparing a medicament for the treatment of an arousal disorder.

Claim 29 (Withdrawn, Currently Amended): The therapeutic composition according to claim 23 ~~or~~ 24, wherein the therapeutic composition is useful in preparing a medicament for the treatment of impaired interpersonal functioning and relationship to the external world.

Claim 30 (Withdrawn, Currently Amended): The therapeutic composition according to claim 23 ~~or~~ 24, wherein the therapeutic composition is useful in preparing a medicament for the treatment of a mood disorder.

Claim 31 (Withdrawn, Currently Amended): The therapeutic composition according to claim 23 ~~or~~ 24, wherein the therapeutic composition is useful in preparing a medicament for the treatment of impaired social activity linked to sexuality.

Claim 32 (Withdrawn, Currently Amended): The therapeutic composition according to claim 23 ~~or~~ 24, wherein the therapeutic composition is useful in preparing a medicament for the treatment of impaired sexual behavior.

Claim 33 (Withdrawn, Currently Amended): The therapeutic composition according to claim 23 ~~or 24~~, wherein the therapeutic composition is useful in preparing a medicament for the treatment of a phobia, an obsessive compulsive disorder or an acute stress disorder.

Claim 34 (Withdrawn, Currently Amended): The therapeutic composition according to claim 23 ~~or 24~~, wherein the therapeutic composition is useful in preparing a medicament for the treatment of symptoms of more than one mental disorder.

Claim 35 (Withdrawn, Currently Amended): The therapeutic composition according to claim 23 ~~any of claims 23-34~~, wherein the peptide or peptidomimetic is present in the therapeutic composition together with a second pharmaceutical agent, wherein the second pharmaceutical agent is present in an amount insufficient to reduce or eliminate symptoms of the mental disorder, and wherein the peptide or peptidomimetic according to the invention and the second pharmaceutical agent act synergistically to reduce or eliminate symptoms of the mental disorder.

Claim 36 (Withdrawn, Currently Amended): The therapeutic composition of claim 23 ~~any of claims 23-35~~, wherein the therapeutic composition is in the form of a solid, a liquid, a gel, an aerosol, or a sustained release formulation.

Claim 37 (Withdrawn, Currently Amended): The use of a SMR1 peptide, or a peptidomimetic thereof, for the preparation of a medicament for reducing or eliminating symptoms of a mental disorder in a mammal having the mental disorder.

Claim 38 (Withdrawn, Currently Amended): The use according to claim 37, wherein said SMR1-peptide comprises an amino acid sequence selected from the amino acid sequences shown in SEQ ID ~~no~~ NO. 1, SEQ ID ~~no~~ NO. 2, SEQ ID ~~no~~ NO. 3 and SEQ ID ~~no~~ NO. 4, SEQ ID NO. 5, SEQ ID NO. 6, SEQ ID NO. 7, SEQ ID NO. 8, SEQ ID NO. 9, and SEQ ID NO. 10.

Claim 39 (Withdrawn, Currently Amended): The use of a peptide according to claim 37 ~~or 38~~, for preparing a medicament for the treatment of an avoidance disorder.

Claim 40 (Withdrawn, Currently Amended): The use of a peptide according to claim 37 ~~or 38~~, for preparing a medicament for the treatment of a decreased awareness disorder.

Claim 41 (Withdrawn, Currently Amended): The use of a peptide according to claim 37 ~~or 38~~, for preparing a medicament for the treatment of an attention deficit/hyperactivity disorder.

Claim 42 (Withdrawn, Currently Amended): The use of a peptide according to claim 37 ~~or 38~~, for preparing a medicament for the treatment of an arousal disorder.

Claim 43 (Withdrawn, Currently Amended): The use of a peptide according to claim 37 ~~or 38~~, for preparing a medicament for the treatment of impaired interpersonal functioning and relationship to the external world.

Claim 44 (Withdrawn, Currently Amended): The use of a peptide according to claim 37 ~~or 38~~, for preparing a medicament for the treatment of a mood disorder.

Claim 45 (Withdrawn, Currently Amended): The use of a peptide according to claim 37 ~~or 38~~, for preparing a medicament for the treatment of impaired social activity linked to sexuality.

Claim 46 (Withdrawn, Currently Amended): The use of a peptide according to claim 37 ~~or 38~~, for preparing a medicament for the treatment of impaired sexual behavior.

Claim 47 (Withdrawn, Currently Amended): The use of a peptide according to claim 37 ~~or 38~~, for preparing a medicament for the treatment of a phobia, an obsessive compulsive disorder or an acute stress disorder.

Claim 48 (Withdrawn, Currently Amended): The use of a peptide according to claim 37 ~~or 38~~, for preparing a medicament for the treatment of symptoms of more than one mental disorder.

Claim 49 (Withdrawn, Currently Amended): The use of a peptide according to claim 37 ~~any of claims 37-48~~, for preparing a medicament, wherein the peptide or peptidomimetic is present together with a second pharmaceutical agent, wherein the second pharmaceutical agent is present in an amount insufficient to reduce or eliminate symptoms of the mental disorder, and wherein the peptide or peptidomimetic according to the invention and the second pharmaceutical agent act synergistically to reduce or eliminate symptoms of the mental disorder.

Claim 50 (Withdrawn): The use of a peptide according to claim 37 ~~any of claims 37-~~
49, for preparing a medicament in the form of a solid, a liquid, a gel, an aerosol, or a
sustained release formulation.